

National Aeronautics and Space Administration



LAUNCHING TO THE MOON AND BEYOND

www.nasa.gov

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Why Do We Explore?

◆ Inspiration

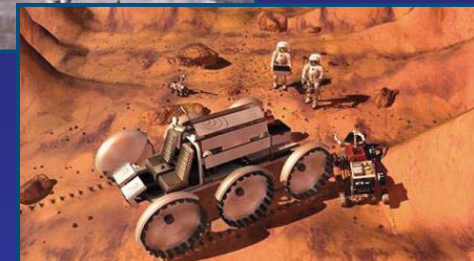
- Inspire students to explore, learn, and build a better future

◆ Innovation

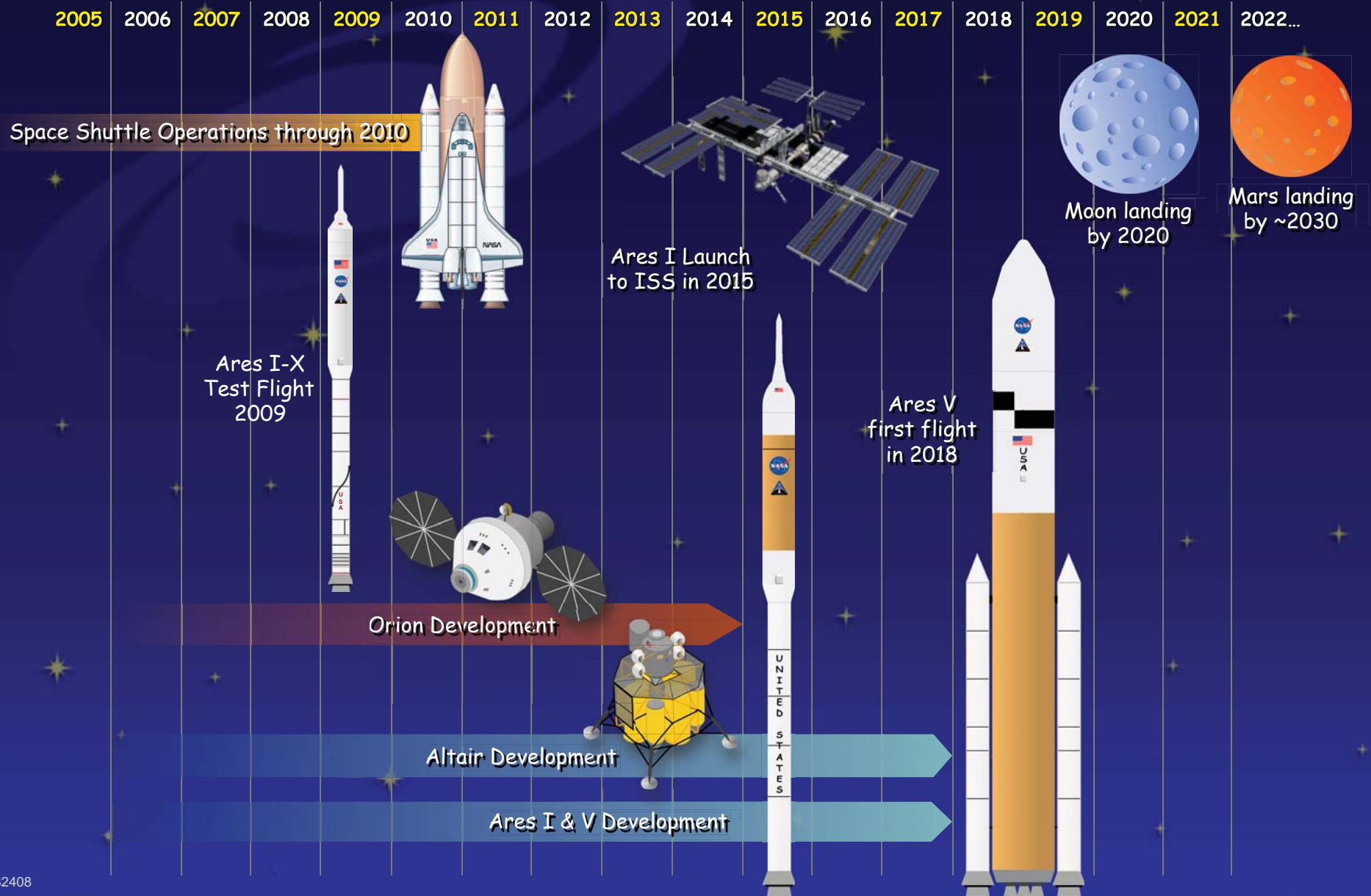
- Provide opportunities to develop new technologies, new jobs, and new business opportunities

◆ Discovery

- Discover new information about ourselves, our world, and how to manage and protect it



NASA's Exploration Timeline

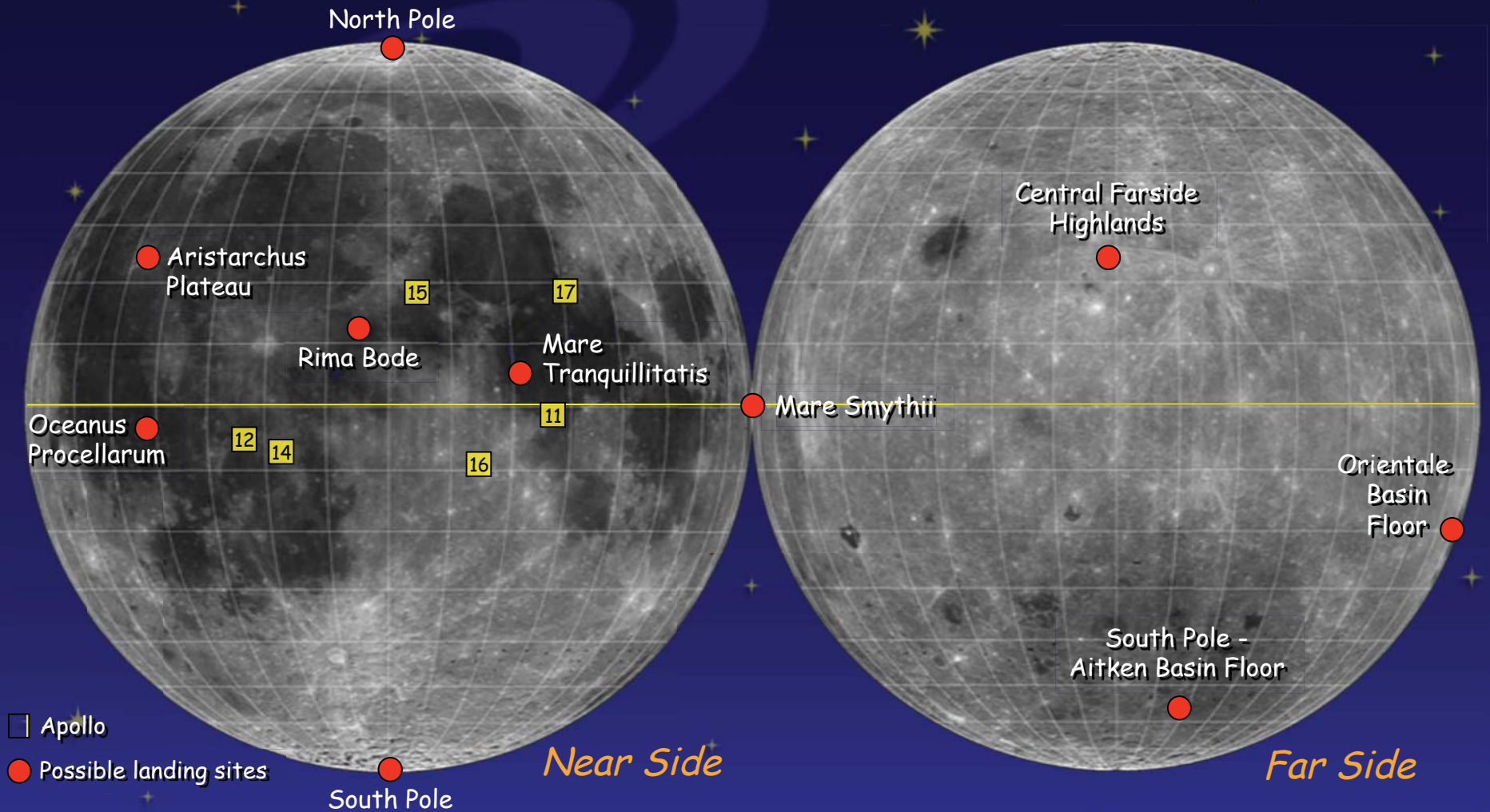


Why the Moon?

- ◆ It's close - it only takes 3 days to get there
- ◆ The Moon is a stepping stone to the rest of the solar system
- ◆ To explore areas where humans have never been, like the poles and the far side of the Moon
- ◆ To set up Earth's first lunar base/outpost



There Are Many Places To Explore



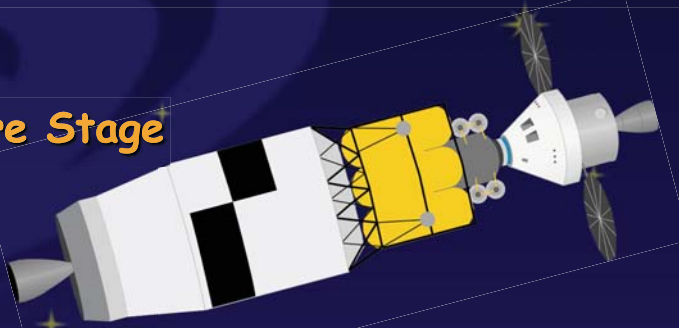
We Can Land Anywhere on the Moon!

Our Constellation Exploration Fleet



What will the vehicles look like?

Earth Departure Stage



Ares V
Cargo Launch Vehicle



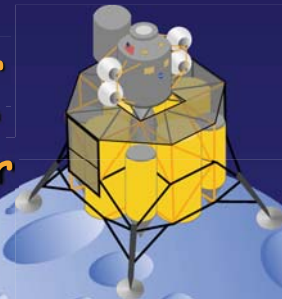
Ares I
Crew Launch Vehicle



Orion
Crew Exploration Vehicle



Altair
Lunar Lander



Ares I

Launch Abort System

Service Module

Instrument Unit

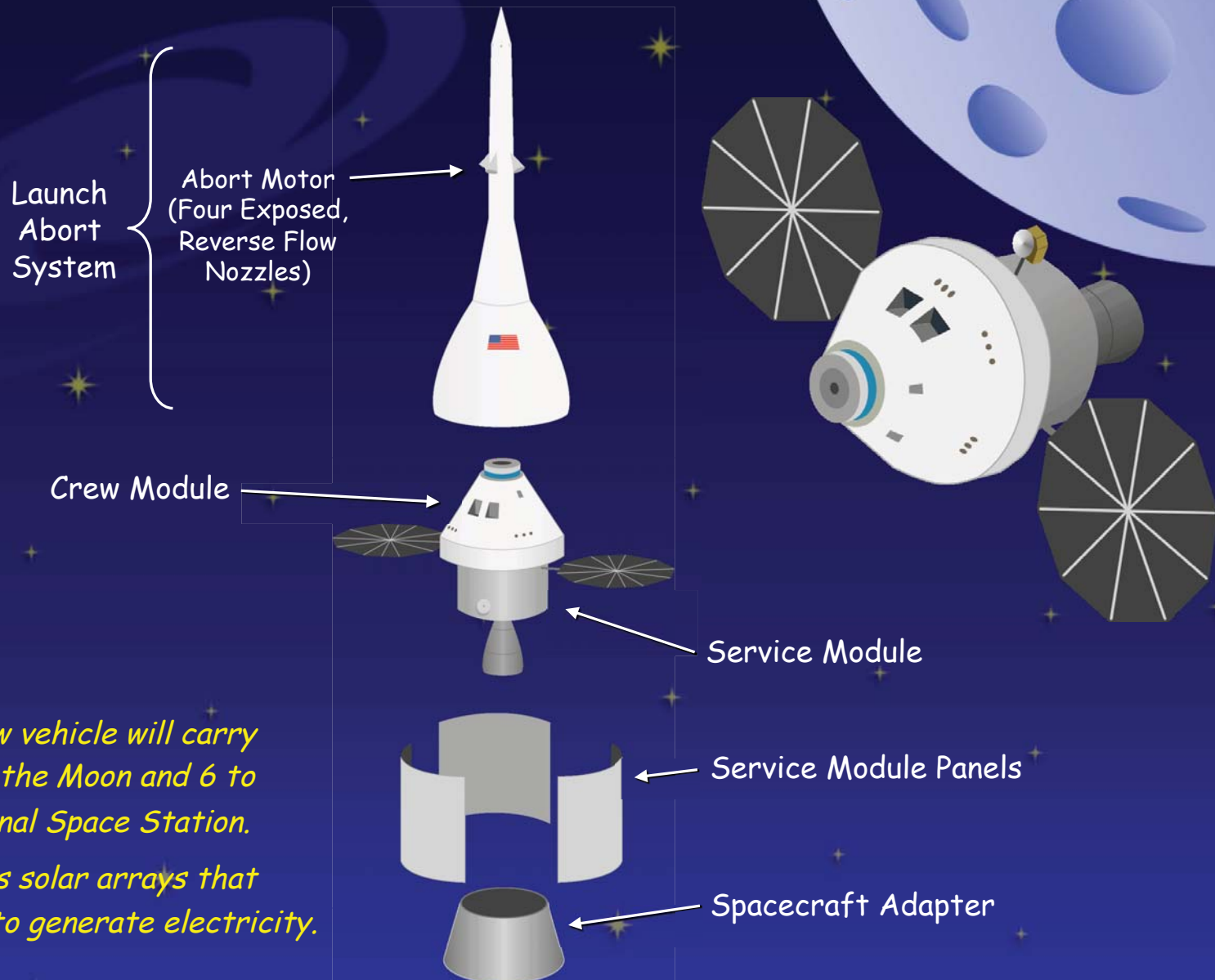
Upper Stage

Interstage

First Stage

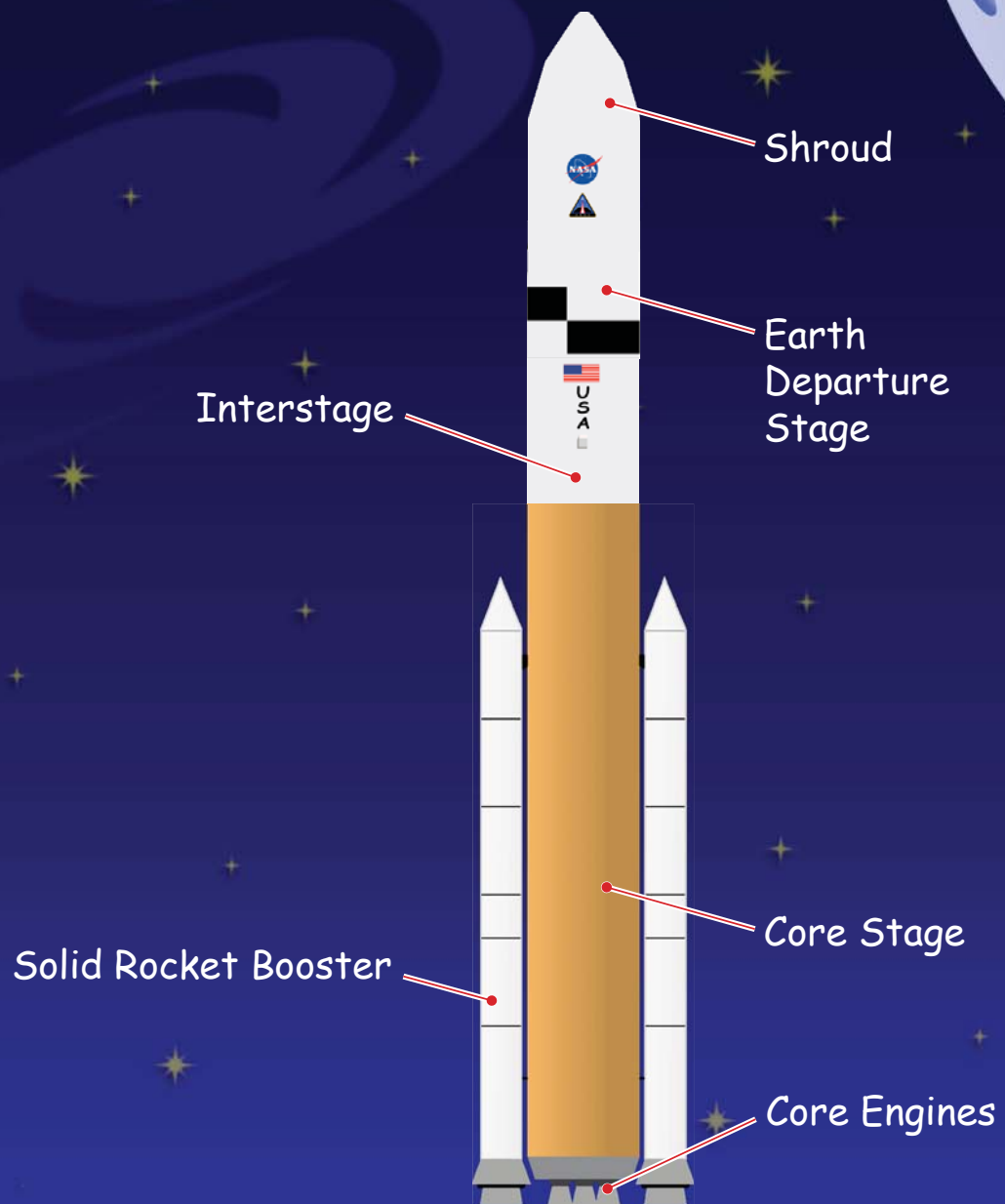


Orion Crew Exploration Vehicle



The Orion crew vehicle will carry a crew of 4 to the Moon and 6 to the International Space Station. The vehicle has solar arrays that track the sun to generate electricity.

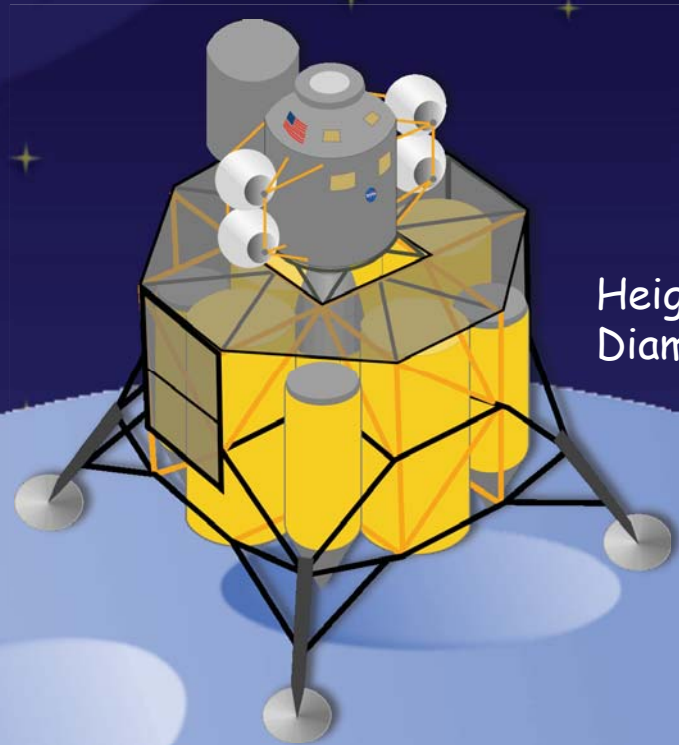
Ares V



Altair



The Altair Lunar Lander will land a crew of 4 on the surface of the Moon.



Height: 9.7m (32 ft.)
Diameter: 7.5m (25 ft.)

Careers at NASA



Space
Chef



Space Farmer



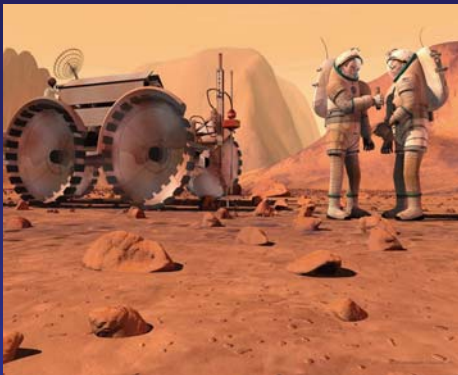
Astronaut



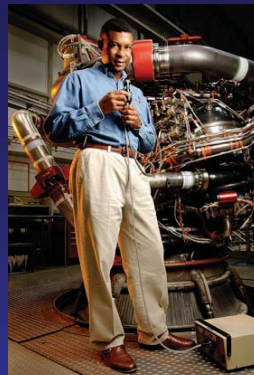
Microbiologist



Spacesuit
Designer



Geologist



Engineer



Scientist



Payload Communicator



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